

FY 2008-2011 State Transportation Improvement Program

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INTRODUCTION

The State Transportation Improvement Program (STIP) is a federally mandated planning document that lists surface transportation projects that the state intends to fund with federal-aid provided under the federal-aid transportation program. The primary purpose of this document is to provide information regarding the programs and projects to which state and local transportation agencies have committed over the next four years. It verifies that new transportation resources are available and sufficient to finance these improvements.

On August 10, 2005, the President signed into law the Safe, Accountable, Flexible, and Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU). This Act authorizes funding for highway roads and bridges, roadsides, non-motorized, highway safety and public transportation across the nation for federal fiscal years 2005 through 2009. Michigan's fiscal year 2008-2011 STIP was prepared in accordance with the requirements of SAFETEA-LU.

The transportation improvement projects reported in the STIP were developed in coordination with the state's Metropolitan Planning Organizations (MPOs) representing urbanized areas and with Rural Task Forces representing the state's rural areas. The planning process relies upon the participation of state and local government officials, public and private transit providers, organizations representing the customers and providers of transportation in Michigan, and the general public.

The STIP is a compilation of transportation projects that will be authorized for funding in fiscal years 2008-2011. **This STIP document lists only projects outside of the Metropolitan Area Boundaries. All projects within MPO boundaries, whether under the jurisdiction of MDOT or a local transportation agency, are listed in the relevant MPO Transportation Improvement Program (TIP) and are governed by that document. MPO TIPs, whether in draft or final form, are available for review and comment at the respective MPOs throughout the state. The TIPs are included in the STIP by reference.** The projects included in this report are trunkline (state) projects, and local rural and small urban projects. Many local rural and small urban projects are selected through the Rural Task Force and Small Urban Program project selection processes. These projects are grouped as a single item in the STIP rather than being listed individually. This document also does not include some smaller safety and heavy maintenance projects that will be selected later this year following further analysis of highway conditions.

In addition to a listing of projects and programs, this report contains information on the federally mandated statewide and metropolitan transportation planning processes, the Michigan Department of Transportation's (MDOT) transportation goals, the public involvement process for the STIP, and a Financial Plan that compares annual transportation resources to new commitments.

The STIP is expected to be approved by the Federal Highway Administration and the Federal Transit Administration by November 30, 2007. Once approved, it will serve as a four-year planning document for the state and will be periodically updated through the amendment process.

STATEWIDE TRANSPORTATION PLANNING PROCESS

CERTIFICATION

In accordance with 23 CFR 450.218, the Michigan Department of Transportation hereby certifies that the statewide transportation planning process is being carried out in accordance with all applicable requirements of:

- I. 23 U.S.C. 134 and 135, 49 U.S.C. 5303 and 5304, and this part;
- II. Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d-1) and 49 CFR part 21;
- III. 49 U.S.C. 5332, prohibiting discrimination on the basis of race, color, creed, national origin, sex, or age in employment or business opportunity;
- IV. Section 1101(b) of the SAFETEA-LU (Pub. L. 109-59) and 49 CFR part 26 regarding the involvement of disadvantaged business enterprises in USDOT funded projects;
- V. 23 CFR part 230, regarding implementation of an equal employment opportunity program on Federal and Federal-aid highway construction contracts;
- VI. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 *et seq.*) and 49 CFR parts 27, 37, and 38;
- VII. In States containing nonattainment and maintenance areas, sections 174 and 176 (c) and (d) of the Clean Air Act, as amended (42 U.S.C. 7504, 7506 (c) and (d)) and 40 CFR part 93;
- VIII. The Older Americans Act, as amended (42 U.S.C. 6101), prohibiting discrimination on the basis of age in programs or activities receiving Federal financial assistance;
- IX. Section 324 of title 23 U.S.C., regarding the prohibition of discrimination based on gender; and
- X. Section 504 of the Rehabilitation Act of 1973 (29 U.S.C. 794) and 49 CFR part 27 regarding discrimination against individuals with disabilities.

Susan P. Mortel, Director
Bureau of Transportation Planning
Michigan Department of Transportation

Date

THE PLANNING PROCESS UNDER SAFETEA-LU

The statewide planning process under SAFETEA-LU, requires “*each State to carry out a continuing, cooperative, and comprehensive statewide multimodal transportation planning process, including the development of a long-range statewide transportation plan and statewide transportation improvement program (STIP), that facilitates the safe and efficient management, operation, and development of surface transportation systems that will serve the mobility needs of people and freight (including accessible pedestrian walkways and bicycle transportation facilities) and that fosters economic growth and development within and between States and urbanized areas, while minimizing transportation- related fuel consumption and air pollution in all areas of the State, including those areas subject to the metropolitan transportation planning requirements of 23 U.S.C. 134 and 49 U.S.C. 5303.*” (From 23 CFR 450.200.)

SAFETEA-LU requires MDOT and Michigan’s twelve MPOs to each develop a long-range plan covering a minimum 20 year horizon that provides direction for the development and implementation of multimodal transportation programs. In June 2007, MDOT published the *MI Transportation Plan - Moving Michigan Forward - 2005-2030 State Long-Range Transportation Plan* (SLRP). The SLRP is the product of nearly three years of effort to identify trends that impact transportation, define a vision, establish goals and develop strategies to achieve the goals while involving the public and all transportation customers in the process. The MPOs are currently developing or just recently completed the development of long-range plans for each urbanized area. Local long-range plans, whether in draft or final form, are available for review and comment at the respective MPOs around the state.

In addition to the SLRP, Section 307 of Michigan’s annual transportation funding appropriation act requires that MDOT provide, “Before February 1 of each year...its rolling 5-year plan listing by county... all highway construction projects for the fiscal year and for all expected projects for the ensuing fiscal years.” MDOT has expanded this requirement from a “highway construction” document into a comprehensive multimodal plan. The introduction to the *2007-2011 Five-Year Transportation Program* states:

“The Five-Year Transportation Program is a continuous, interactive, transparent dialogue with our customers and stakeholders that has become the anchor of MDOT’s project development and delivery systems. The 2007-2011 Transportation Program anticipates Michigan’s evolving economic and transportation needs by first ensuring that MDOT will substantially achieve the State Transportation Commission’s 1997 system preservation goal of 90 percent of state roads and bridges in good condition by 2007 and 2008 respectively. The 2007-2011 Five-Year Transportation Program preserves and improves Michigan’s transportation network in a fiscally responsible manner. It also implements Governor Jennifer M. Granholm’s Jobs Today initiative, as well as congressionally designated funds from the recently passed federal transportation reauthorization (SAFETEA-LU), to help grow Michigan’s economy, make travel safer and improve the quality of life in Michigan communities.”

The STIP and its associated TIPs, are a culmination of multiple transportation planning processes. The bi-annually developed STIP is the final planning document preceding the actual construction or implementation of projects. Thus, the implementation of the state’s Long-Range Plan and Five-Year Transportation Plan is accomplished through a four-year STIP, which lists the projects to be implemented and how they are to be financed. The STIP is a compilation of 13 separate programs,

including 12 MPO TIPs and one non-MPO (rural) program developed by MDOT. The projects that are selected for the STIP and TIPs are the logical result of the needs and policies identified in the State Long Range Transportation Plan (SLRP), each MPO's long-range plan and the Five-Year Transportation Plan. This STIP covers fiscal years 2008-2011 and will include by reference the FY 2008-2011 TIPs prepared by the MPO areas.

STATE LONG-RANGE TRANSPORTATION PLAN 2005-2030

Michigan's *MI Transportation Plan - Moving Michigan Forward - 2005-2030 State Long-Range Transportation Plan* (SLRP) was published in June 2007. The SLRP, is a "comprehensive, forward - looking approach to identifying and addressing the state of Michigan's transportation needs to the year 2030." All future transportation improvements must be consistent with this Plan.

The SLRP was coordinated with local long-range transportation plans and developed with extensive input from the general public; businesses; local, state, federal and tribal government officials; our transportation partners and all other stakeholders. In 2003 and again in 2004, MDOT held a large-scale summit meeting to initiate a dialogue with Michigan residents regarding future transportation needs. The following **long-range conceptual vision** resulted:

"Michigan will lead the 21st century transportation revolution as it led innovation in the 20th century. We will move people and goods with a safe, integrated, and efficient transportation system that embraces all modes, is equitably and adequately funded, and socially and environmentally responsible. Michigan's transportation community will work together to ensure that resources are in place to deliver the system."

From this long-range vision, nine **specific long-range vision statements** were identified:

- **Purposeful:** Michigan's 2030 integrated transportation system will be the foundation of the state's economic vitality and will sustain quality of life for its residents.
- **Prioritized:** Capacity improvements will be needed, but the first priority will be physical or technological improvements to enhance efficiency, mobility and access.
- **Coordinated:** All transportation providers will work together to address the system's needs holistically. All modes will be maintained, preserved, operated, and protected as one system, one of the state's most important physical assets.
- **Safe:** Safety will be a primary goal. It will be addressed as each improvement is planned and implemented. Personal and system wide security will be enhanced, including border security.
- **Advanced:** MDOT will embrace technology and technological development. The department will use innovation in every aspect of what it builds, how it builds, and in every service that is provided.
- **Integrated Choices:** System integration will be achieved for both passenger and freight transportation through improvements in modal services and effective intermodal connections. The system will be responsive to the public's demand for more transit, bicycle and pedestrian choices. The need for freight and passenger movement will be balanced, and the system will accommodate both without compromising goals for safety or economic competitiveness.
- **Appropriate to the Setting:** Transportation will be integrated between modes, and also with land use, economic, and environmental systems. Transportation solutions will be regionally sensitive, sustainable,

and energy efficient. Infrastructure improvements will be tailored to the community and natural setting and will be planned cooperatively so customers and partners are satisfied with the result.

- **Flexibly-Funded:** Transportation financing will be diversified to include new methods and techniques, but public funds will remain dedicated to transportation purposes. Funding will be flexible so that money can be allocated to meet the highest priority user needs.
- **Responsive:** MDOT will be an open and flexible organization, responsive to customer needs and with a transparent, accountable decision-making process. MDOT will be proactive, adaptable, and able to identify and respond to change as needed.

After many action team meetings, public forums and input from a variety of sources, four **long-range goals** were developed:

- **Stewardship:** Preserve transportation system investments, protect the environment, and utilize public resources in a responsible manner.
- **System Improvement:** Modernize and enhance the transportation system to improve mobility and accessibility.
- **Efficient and Effective Operations:** Improve the efficiency and effectiveness of the transportation system and transportation services and expand MDOT's coordination and collaboration with partners. decision-making process.
- **Safety and Security:** Continue to improve transportation safety and ensure the security of the transportation system. to change as needed.

And ultimately six key **strategies** to help Michigan achieve these goals were agreed to:

- **Focus improvements on Corridors of Highest Significance:** There will never be sufficient funding to make every transportation improvement that is identified, however worthy. In order to be an appropriate steward of the public trust, and make the most effective use of limited transportation revenue, MDOT will focus on improvement to the condition and efficient operation of multi-modal corridors of highest significance to the Michigan economy.
- **Measure performance for all modes:** MDOT's experience establishing and achieving its goals for highway pavement and bridge condition was very successful. A similar focus must be brought to bear on highway operations, safety, and the condition and performance of other modes, by establishing targets, measuring performance, and investing appropriately to achieve improvement.
- **Integrate the transportation system:** The public has expressed its wish for more modal choices. In the years to come, as Michigan's population ages, single-occupancy vehicles may no longer be the most practical or preferable transportation option for many residents. Commercial traffic also increasingly uses more than one mode, and seamless connections are vital to keep the economy moving. Michigan must plan and invest now to ensure a greater array of well-connected transportation options.
- **Encourage Context Sensitive Solutions:** MDOT will conduct dialogues with local governments, road commissions, industry groups, land use advocates, and state agencies early in a project's planning phase. These dialogues help ensure that bridges, interchanges, bike paths and other transportation projects "fit" into their communities. To make effective decisions, transportation agencies need to consider community values while making sound design choices that follow federal standards and meet or exceed regulatory agency requirements. Stakeholder input is a key component for good transportation decision-making.
- **Avoid, Minimize or Mitigate for Adverse Impacts:** MDOT works closely with federal, state and local agencies and the twelve federally-recognized Tribes throughout the corridor and project

planning processes to ensure appropriate stewardship and preservation of Michigan's cultural and natural resources. In the initial stages of corridor planning, MDOT will confer with these partner agencies and the federally-recognized Tribes to evaluate prospective projects for potential negative impacts to property owners, archaeological and historic resources, endangered species, farmlands, public recreational properties, air quality, floodplains, wetlands, land uses, contaminated sites, and noise levels, as required by the various federal, state and local laws, rules and regulations. The *MI Transportation Plan, Environmental Technical Report* includes a list of partners who assist our efforts to protect Michigan's natural and cultural resources.

- **Identify appropriate funding:** Current transportation revenue streams are not even sufficient over the next 30 years to sustain the good condition of highway pavement and bridges, let alone improve operations, integration among modes, or the performance of non-highway modes. Providing flexibility to invest in a range of mutually supporting and integrated modal programs will be the first step toward meeting the vision. The public supports new and innovative transportation funding solutions as necessary, but a new focus on operations and integrated transportation will help move Michigan closer to its goals regardless of the level of funding.

For further information on Michigan's long-range transportation plan, go to <http://www.michigan.gov/slrp> or contact any MDOT facility (Region office, Transportation Service Center or the central office). Appendix A provides a map of MDOT offices and service centers. Appendix B and C provide contact information for each region office and TSC, respectively.

MDOT FIVE-YEAR TRANSPORTATION PROGRAM 2007-2011

The Department, at the direction of the Governor and the State Transportation Commission, has annually published a Five-Year Transportation Program since 1999. The 2007-2011 Transportation Program, published in January 2007, contains current multimodal investment strategies as well as a list of specific road and bridge projects to be undertaken during that period.

Development of the Five-Year Transportation Program is based on sound asset management principles, realistic revenue forecasts, reasonable investment strategies, extensive customer feedback and collaboration with our partners. It is a multi-stage, year-long effort and a crucial component of the cooperative planning process as well as the basis for implementing the policies, strategies and projects identified in the State Long-Range Transportation Plan. Key steps in the development of the Five-Year Program are:

1. Public involvement and consultation throughout the process
2. Determine estimated federal and state revenue available
3. Develop investment strategies
4. Issue annual Call for Projects to MDOT Region Offices
5. Submit candidate projects
6. Conduct MDOT internal committee review
7. Select projects
8. Draft Transportation Program

Revenue estimates are reviewed and updated twice a year in conjunction with the Department of Treasury. MDOT's current investment strategy focuses on the preservation of the existing system and on the delivery of a limited number of capacity improvement projects.

Project selection decisions are guided by input received throughout the planning process and made in consultation with the Rural Task Forces and Metropolitan Planning Organizations (MPOs). Factors in the project selection and review process for the Highway Capital Program include ensuring consistency with Michigan State Transportation Commission policy, compliance with standards, region and statewide goal achievement, meeting eligibility requirements, degree of project readiness, and available funding. For multi-modal programs such as aviation, bus, marine and rail, project selection differs from mode to mode, and even within modes, but essentially factors comparable to the Highway Capital Program are used.

The impact of SAFETEA-LU on Michigan's program delivery must also be considered in developing the Five-Year Program. Highlights and impacts of SAFETEA-LU include:

- Michigan's donor state status has improved; the minimum guaranteed return on taxes that Michigan sends to the federal government has increased from a 90.5 percent share in 2006 to 91.5% in 2007 and 92% in 2008-2009. In other words, for every dollar Michigan send to Washington, D.C., 92 cents will be returned to Michigan.
- Safety is now a separate program and funding for safety improvements is nearly doubled.
- A new program improving the ability of students to walk and bike safely to school.
- Emphasis on the operation and security of international border crossings.
- More opportunities for innovative finance from non-traditional sources.
- More transit resources for the underserved populations (rural, elderly, disabled and low-income)
- The amount of earmarked funds designated for specific projects (High Priority Projects) is nearly doubled (from \$11 billion in TEA-21 to \$21.6 billion in SAFETEA-LU). This decreases the share of funds available for core programs (such as Interstate Maintenance), as well as undermines the federally mandated planning processes.
- More emphasis on documented public involvement and consultation processes; as well as the content of the dialogue resulting from implementation of these processes

"Integrated analysis of options and tradeoffs [between and among modes] investigates how best to meet the needs of customers while responding to policy goals and objectives. Decisions on resource allocation among programs and investment options are made consistent with policy guidance and the results of alternative analyses. Once decisions on resource allocation are made, they are implemented through delivery of services and projects." (From Five-Year Transportation Program 2007-2011.)

As mentioned, MDOT's highest priorities remain preserving our existing transportation system as well as the safe operation of that system. These and other strategies guiding the preservation and development of Michigan's transportation system include:

- **System Preservation** - complete the implementation of Governor Granholm's Preserve First initiative by the end of 2007. Funding under Preserve First allows MDOT to advance projects

from future years to reach system condition goals. Preservation will continue to retain its emphasis once Preserve First funding is expended. MDOT's focus will remain on repairing the worst roads and bridges first, balancing long-term fixes (reconstruction) and intermediate fixes (resurfacing and rehabilitation) with short term fixes (capital preventive maintenance) and routine maintenance (pothole patching, plowing, mowing, etc.).

- **Safety** - focus on five safety areas: senior mobility, pedestrian, traffic operations, roadway delineation and the Safety Improvement Program. These safety enhancements will include improved driver guidance through enhanced pavement markings, signing and traffic signal visibility; warning and minimal consequences for motorists who leave the roadway; safety and operational designs to meet the unique needs of the rapidly growing elderly population; and extensive outreach to promote and implement the new federal Safe Routes to School program. Safety is an overriding concern for our transportation system and now a federally endorsed emphasis in SAFETEA-LU which nearly doubles the funding available for safety. Michigan's transportation providers continue to be leaders in traffic safety improvements. According to the National Highway Traffic Safety Administration's *2006 Annual Assessment of Motor Vehicle Traffic Crash Fatalities and Injuries*, the total number of fatalities from motor vehicle accidents in Michigan declined from 1,129 in 2005 to 1,085 in 2006, a reduction of 44 or 3.9% statewide.
- **Economic Growth** - implementation of Governor Granholm's Job's Today initiative, a three-year construction program to stimulate job and economic growth by advancing state and local preservation projects and addressing critical capacity needs. The deadline for the local element of the program was recently extended approximately six months from September 30, 2007 to April 4, 2008. A safe, well-maintained and efficient transportation system provides the backbone for all economic activity within the state of Michigan. Findings of a joint MDOT and University of Michigan economic benefits study of the 2007-2011 Five-Year Program estimate road and bridge investments will create 23,034 jobs in 2007. The study also estimates that the 2007 program will generate over \$1.4 billion of Gross State Product and about \$1 billion in personal income (in inflation-adjusted 2007 dollars).
- **Corridors of Highest Significance** - implementation of projects within these corridors identified in the State Long-Range Plan. Corridors of Highest Significance link multiple activity centers where population, employment, tourism, transportation, and other economically important activities are concentrated. Corridors can be of local, regional, statewide, national, or international significance depending on what geographic areas they serve. These corridors provide the foundation for Michigan's economy and MDOT will continue to focus investments to rebuild and modernize these roadways and the transportation facilities within them.
- **Border Crossings** - improve Michigan's highway and rail border crossings and their related trade corridors. A five-year strategy to systematically repair and rebuild the U.S.-Canada border infrastructure and connecting Interstate freeway system consists of three key elements: investments in border and corridor infrastructure; enhanced coordination and cooperation with federal, state, provincial, regional, and local partners; and advocacy efforts for federal policies that address border and corridor infrastructure needs and improve the movement of people and goods across the U.S.-Canada border.

Other factors considered in maintaining and developing the transportation system that are evaluated in the project selection process include, but are not exclusive to, the following:

- **Road and Bridge Condition** - continuous collection and evaluation of road and bridge

conditions statewide is essential to effective asset management.

- **Public Involvement/Outreach** - listen to the public to determine policy, projects and programs for the transportation system. Improve dialogue with local customers and partners to encourage context sensitive solutions that meet the needs of and fit the character of each community.
- **Environmental Stewardship** - work with state and federal resource agencies to ensure environmentally sound projects and minimize disruption to ecosystems.
- **Intelligent Transportation Systems (ITS)** - continuously enhance and expand the use of this technology tool to reduce congestion, improve safety and security and expedite travel.
- **Multimodal Integration** - consider transit, aviation, all modes of freight, ports, intercity bus, passenger rail, pedestrian and biking needs and their intermodal connectivity. Encourage alternate modes and ridesharing.
- **Fiscal Responsibility** - continuous assessment and improvement through the use of technology, organizational streamlining, and other tools to work smarter and more efficiently.

MDOT may need to make program adjustments in order to constrain the program to revenue estimates. Because of sustained higher gasoline prices, people are traveling less. More fuel efficient vehicles and less miles traveled results in declining state revenue dedicated to transportation. If needed, MDOT will make necessary adjustments with extensive customer feedback as well as collaboration with its partners while remaining committed to responsible investment strategies that combine sound asset management principles.

METROPOLITAN PLANNING

In metropolitan areas exceeding 50,000 residents, SAFETEA-LU requires that Metropolitan Planning Organizations (MPOs) be designated by agreement between the Governor and all affected local governments in order “*to carry out a continuing, cooperative, and comprehensive multimodal transportation planning process, process, including the development of a metropolitan transportation plan and a transportation improvement program (TIP), that encourages and promotes the safe and efficient development, management, and operation of surface transportation systems to serve the mobility needs of people and freight (including accessible pedestrian walkways and bicycle transportation facilities) and foster economic growth and development, while minimizing transportation-related fuel consumption and air pollution; and (b) Encourages continued development and improvement of metropolitan transportation planning processes guided by the planning factors set forth in 23 U.S.C. 134(h) and 49 U.S.C. 5303(h).*” (From 23 U.S.C. 450.300.) As you can see, the metropolitan planning process parallels and compliments, and is required to be coordinated with, the statewide transportation planning process.

The metropolitan planning process requires the development of local long-range transportation plans for each of Michigan's MPOs. Because of federal air quality requirements, some of the MPO's plans require much greater detail than the state plan. All regionally significant projects to be implemented within the 20-year period of the MPO plans must be identified, demonstrate financial constraint and meet air quality conformity requirements. The MPO's plan must be updated every five years (four years in air quality nonattainment areas) and be consistent with the statewide goals and objectives

established in the SLRP and by MDOT.

Each MPO is also responsible for developing a four-year Transportation Improvement Program (TIP) by working with city and county transportation agencies, local transit operators and state transportation officials. The MPO planning process is used to identify needs and prioritize projects within the Metropolitan Area Boundary (MAB). MPOs are required to develop and implement a public participation plan that provides a "reasonable opportunity" for comment on the TIP "at key decision points." Each TIP lists all federal-aid and regionally significant road, street, highway and transit projects within its boundaries whether under state or local jurisdiction. The MPO TIPs are incorporated by reference into the STIP.

Michigan's MPOs and primary urbanized areas within those MPOs are identified below. Many smaller cities, towns and townships are also represented by the MPOs.

Table 1

Metropolitan Planning Organization (MPO)	Acronym	Urbanized Area(s) Served
Battle Creek Area Transportation Study	BCATS	Battle Creek
Bay City Area Transportation Study	BCATS	Bay City
Genesee County Metropolitan Alliance	GCMA	Flint
Grand Valley Metro Council	GVMC	Grand Rapids
Kalamazoo Area Transportation Study	KATS	Kalamazoo
Macatawa Area Coordinating Council	MACC	Holland/Zeeland
Niles Area Transportation Study*	NATS*	Niles;* South Bend, IN
Region 2 Planning Commission	R2PC	Jackson
Saginaw Metropolitan Area Transportation Study	SMATS	Saginaw
Southeast MI Council of Governments	SEMCOG	Ann Arbor; Detroit; Port Huron; Monroe County; Toledo, OH; Brighton/Howell/South Lyon
Southwestern MI Commission	SWMC	Benton Harbor, St. Joe & Niles
Tri-County Regional Planning Commission	TCRPC	Lansing
Twin Cities Area Transportation Study*	TCATS*	Benton Harbor, St. Joseph*
West Michigan Metropolitan Transportation Planning Program	WestPlan	Muskegon, Grand Haven, North Ottawa County

* Part of SWMC

For further information on the metropolitan transportation planning process, or to review and comment on a local plan, please contact the closest MPO to your area of interest. A list of contacts for each MPO with phone, fax, Web-site and e-mail is included in Appendix D.

MDOT-MPO COOPERATIVE PLANNING PROCESS

MDOT and the state's MPOs are committed to the continuing, cooperative, and comprehensive transportation planning process in Michigan. The goal of the process is to foster closer coordination in all aspects of the transportation plan development process.

The process encourages teamwork and consensus building to identify state and local transportation needs, evaluate proposed projects to address those needs, and utilize agreed-to planning tools to reach agreement for metropolitan transportation systems. The following are the basic steps in the process:

1. Public involvement and consultation throughout the process
2. Establish goals and objectives consistent with those of the State Transportation Commission
3. Develop a statewide revenue assessment
4. Identify tools for analysis and evaluation
5. Identify and assess needs
6. Forecast MPO revenue
7. Define program structure
8. Develop criteria for project prioritization within program structure categories
9. Develop the 20 year state long-range plan/program
10. Identify five-year transportation plan
11. Develop four year STIP/TIP.

The process unifies the overall transportation planning process into one coordinated effort for long range plans; the five-year transportation program; and the STIP and associated TIPs. Periodic evaluation of the effectiveness of the process ensures that Michigan will be able to effectively and efficiently respond to current and future transportation needs.

The 2000-2020 Public Transit Strategic Plan, published in May 2001, is the product of many individuals and groups with interest and concerns about public transportation in the state. From 1999 to 2001, the Michigan transit strategic planning process sought systematically to gather information from these individuals in order to develop targeted initiatives that would advance transit in the state. This plan was the major public transit component for the SLRP.

RURAL TASK FORCES

Local federally funded transportation projects to be implemented in rural areas outside of MPO boundaries, are selected by the applicable Rural Task Force. These task forces represent the jurisdictions providing transportation services and include cities, unincorporated villages with fewer than 5,000 residents, transit operators, county road commissions, MDOT, and, where appropriate, tribal governments.

Each Rural Task Force select projects in accordance with funding targets established by MDOT,

based on projected amounts of federal and state funds to be received. Projects within the task force boundaries are also reviewed for eligibility and consistency with the criteria established for the state's Transportation Economic Development Fund and the federal Surface Transportation Program.

The Rural Task Force projects covered in this STIP include all local surface transportation improvements to be implemented over the next four years outside the metropolitan area boundaries. These projects are typically grouped together in a single line item in the statewide section of the STIP rather than being listed individually. Projects within the MPO areas are listed individually in the appropriate TIP.

Michigan has 23 Rural Task Forces . Appendix E shows a map of the task force boundaries and provides a list of RTF contacts. For further information on Rural Task Forces, contact the appropriate RTF Chair or the statewide Rural Task Force Coordinator:

Susan Richardson
Michigan Department of Transportation
Bureau of Transportation Planning
P.O. Box 30050
Lansing, Michigan 48909

E-mail: richardsons@michigan.gov
Telephone: 517-373-1881
Fax: 517-373-9255

SMALL URBAN PROGRAM

In direct response to requests by local officials, MDOT makes funds available for eligible road and transit capital projects to cities, villages, transit agencies, and road commissions located within or serving urban areas that have a population between 5,000 and 50,000. The funds are distributed to individual small urban areas through a competitive funding program administered by the state. MDOT strives for an equitable distribution of funds statewide to ensure that eligible communities can implement meaningful projects.

Consistency with SAFETEA-LU requirements is a key component in the determination of project eligibility. All road and transit projects must be federal-aid eligible, within the federal urban area boundary and consistent with regional land use and development plans. The cities must demonstrate that city, village and tribal government agencies; transit providers and county road commissions have

been included as full partners in the project selection process and that the necessary public involvement has been conducted prior to project submittal. The urban area project selection committee must hold a minimum of one public meeting to allow citizens within their community to participate in the project selection and prioritization process. Small urban areas within a metropolitan area boundary (MAB) must participate in the MPO planning process as well, and gain the MPO's approval of the project before submitting it to MDOT for funding.

As of the 2000 Census, there are 55 small urban areas in Michigan (see Appendix F). For Small Urban areas that are within MABs, the MPO is indicated; all others are in non-MPO areas.

Projects selected for funding through the Small Urban Program are typically grouped together in a single line item in the statewide section of the STIP, however, each project is listed individually by fiscal year on the Small Urban Program Web-site. For further information on the Small Urban Program go to the MDOT Web-site at <http://www.michigan.gov/mdot> and select projects & programs, grant programs, small urban or contact the Small Urban Program Coordinator:

Nick Perfili
Michigan Department of Transportation
Bureau of Transportation Planning
P.O. Box 30050
Lansing, Michigan 48909

E-mail: perfilin@michigan.gov
Telephone: 517-335-2948
Fax: 517-373-9255

PUBLIC PARTICIPATION

Public participation, or involvement, is a fundamental requirement of SAFETEA-LU. The act clearly requires not only a documented process but also implementation of that process for the long-range plan and the STIP. *In carrying out the statewide transportation planning process, including development of the longrange statewide transportation plan and the STIP, the State shall develop and use a documented public involvement process that provides opportunities for public review and comment at key decision points.*” (From 23 CFR 450.210 (a).)

SAFETEA-LU’s rural (non-MPO) public participation requirements are summarized below:

- Use a documented process
- Provide early and continuous involvement activities (of issues and decision-making process)
- Provide reasonable access to information, including a Web site if feasible
- Provide adequate notice of meetings
- Provide meetings at convenient and accessible locations and times
- Use visualization techniques
- “Demonstrate explicit consideration and response to public input”
- Seek out and consider needs of underserved (low income, minorities, etc.)
- Have a documented process for consulting with non-MPO local officials
- Have a documented process for consulting with tribal governments & federal land management agencies

Michigan’s Statewide Planning Process Participation Plan was updated in 2005 to comply with SAFETEA-LU, and published in April 2006. The *Statewide Planning Process Participation Plan* (PP) provides goals, objectives, outreach strategies, a communication toolbox and effectiveness evaluation strategies for development of the state’s system-wide transportation planning documents.

The state’s major planning long-range documents include the *MI Transportation Plan - Moving Michigan Forward - 2005-2030 State Long-Range Transportation Plan*, the *MI Transit Strategic Plan: 2000-2020*, the *MI Aviation System Plan* and the *Midwest Regional Rail System Plan*. The mode specific plans are developed with the participation of local, metropolitan and regional planning agencies mode specific advocacy groups and other stakeholders.

“MDOT’s goal, through this plan, is to provide the highest quality participation possible for transportation decision-making. This can only be achieved when customers are identified and brought into the planning process. To achieve this goal, major planning and program development objectives include:

1. Solicit public participation in each phase of the statewide planning process.
2. Seek broad identification and representative involvement of customers and users of all transportation modes.
3. Utilize effective and equitable avenues for distributing information and receiving comments.

4. Provide educational materials and design participation initiatives that will support and encourage effective participation.
5. Maintain and develop staff expertise in all aspects of participation.
6. Support and encourage continuous improvement in the methods used to meet the public need for information and involvement.”

Further information on the state’s public participation plan can be obtained from MDOT’s Web-site at <http://www.michigan.gov/mdot>. Select projects & programs, strategic planning programs then public participation plan.

MDOT implements the *Statewide Planning Process Participation Plan* through a variety of public participation activities throughout the development of multiple planning documents. As mentioned previously, the STIP is the final product of multiple planning processes. While transportation planning is a continuous and ongoing process, it is essentially initiated with the development of the State Long Range Transportation Plan.

The development of the current SLRP kicked off in December 2003 with a large-scale “Transportation Summit: Connecting Michigan.” Nine work groups were established and met

monthly to discuss specific issues. A second Transportation Summit was held in December 2004 where the work groups reported on their progress. A variety of public meetings were then held to solicit input from the general public, county road commissions, cities and villages, metropolitan planning organizations, regional planning agencies, tribal governments, public transit agencies and other stakeholders. In November and December of 2006, the third and final round of SLRP workshops provided additional opportunities for participation. In addition to public events, three telephone surveys were conducted between February 2006 and May 2007. Once the draft SLRP was prepared a 45-day public review period was conducted from March to May, 2007.

Further documentation of the state’s public participation effort for the SLRP can be obtained from MDOT’s Web-site at <http://www.michigan.gov/mdot>. Select projects & programs, strategic planning programs then state long range plan, or click on any of the following links:

- [Public Comment on the Draft Report, June 2007](#)
- [Government-to-Government Consultation with Native American Tribes](#)
- [Public Open House Meeting Results - Round 2, August 2006](#)
- [EAG and Stakeholder workshop summary, June 2006](#)
- [Stakeholder Interviews Results](#)
- [Public Participation Plan](#)

The Department’s Five-Year Transportation Program is the second product of Michigan’s transportation planning process. While the SLRP and STIP are federally mandated, the 5YTP is a state requirement yet aids MDOT in complying with federal law. The development of the 5YTP solicits public involvement through public forums and listening sessions; the Rural Task Force and Small Urban project selection process; and through the metropolitan continuing, cooperative, and comprehensive transportation planning process. Between October 1, 2006 and August 6, 2007 five listening sessions were held in southeast Michigan and 13 additional public meetings were held statewide. In addition to these efforts, MDOT conducted nine public hearings and focusing on

regional or corridor issues.

The Department's annual Five-Year Transportation Program planning process forms the foundation upon which the STIP is developed. The STIP is the final planning document preceding the actual construction or implementation of projects. Opportunities for public involvement are provided throughout the project selection process at local, regional and state levels. This cooperative effort includes, but is not limited to, open meetings at the state and local level where project selection and programming decisions are publicly considered, opportunities to comment on proposed projects at city council and city manager meetings, and public notices in local newspapers throughout the state requesting public comment on proposed projects. A review of MDOT's press releases between October 1, 2006 and August 6, 2007 reveal that, in addition to those public participation opportunities outlined above for the SLRP and 5YTP, the following public meetings were conducted: ten for Environmental Assessment studies; six regarding specific corridors and 36 meetings for specific projects. Obviously these latter are project specific planning rather than system-wide, however, the public still has the opportunity to provide input on other transportation issues at these meetings.

Michigan takes pride in being a leader in its commitment to involve "citizens, affected public agencies, representatives of public transportation employees, freight shippers, private providers of transportation, representatives of users of public transportation, representatives of users of pedestrian walkways and bicycle transportation facilities, representatives of the disabled, providers of freight transportation services, and other interested parties" in system-wide planning, project selection processes, project level planning, and decision-making associated with these efforts. In developing the STIP, state officials worked cooperatively with local officials, public and private transportation providers and interested citizens. Many of the projects included in the STIP are the result of numerous public information meetings and hearings, as well as requests by local officials and the public for specific transportation improvements.

The projects that are selected for the STIP and TIPs are the logical result of the needs, policies and projects identified in the State Long Range Transportation Plan, each MPO's long-range plan and the Five-Year Transportation Program. The STIP is the vehicle through which the SLRP and 5YTP are implemented. Throughout this entire process, public involvement remains a continuous process and is paramount in delivering the transportation programs that meet Michigan's needs now and in the future.

PUBLIC REVIEW OF THE DRAFT STIP

MDOT provided the public with a preview of a **draft list of projects** proposed for inclusion in the FY 2008-2011 STIP. On July 17, 2007, MDOT issued a statewide press release to over 400 news organizations announcing this information was available on MDOT's Web site at www.michigan.gov/stip for public comment through August 17, 2007. The press release was sent to the Department's standard media list as well as minority media providers (see Appendix G). A total of two comments were received and addressed.

Prior to final approval of the FY 2008-2011 STIP by the federal agencies, a public review of this **draft report in its entirety** will be conducted and, based on the comments received, may require some revision. In early September 2007, the entire draft report will be posted on MDOT's Web site

at www.michigan.gov/stip for a minimum of two weeks for public comment. MDOT will continue to accept and address comments as they are received. An overview of all comments and MDOT's responses will be provided to FHWA in a separate document. **MDOT will continue to accept and address comments as they are received. You may comment on this report in several ways:**

- Visit www.michigan.gov/stip and select the MDOT-STIP-Comments@michigan.gov link under "Tell us what you think" to send an e-mail to us.
- Send an e-mail directly to MDOT-STIP-Comments@michigan.gov.
- Contact the appropriate MDOT Region Office (see Appendix B), MDOT Transportation Service Center (see Appendix C), MPO (see Appendix D) or Rural Task Force (see Appendix F).
- Visit MDOT's central office or contact the central office by mail, phone, fax, or email:

Michigan Department of Transportation
Statewide Planning Division
P.O. Box 30050
425 West Ottawa Street
Lansing MI 48909

Phone (517) 335-1510
Fax (517) 373-9255
e-Mail: lindstroma@michigan.gov

ENVIRONMENTAL JUSTICE

In February of 1994 President Clinton signed Executive Order 12898. Its major goal is to ensure that no minority or low-income population suffers a “disproportionately high and adverse human health or environmental effects” due to any “programs, policies, and activities” undertaken by a federal agency or any agency receiving federal funds. As the Michigan Department of Transportation (MDOT) does receive federal funding, the above-mentioned order applies to its programs, policies and activities. Environmental Justice (EJ), however, is not a new requirement. In fact, since no additional legislation accompanied the President’s order, its authority rests in Title VI of the Civil Rights Act of 1964, and MDOT has long considered these principles in its planning processes.

These requirements can be met in a variety of ways and on a variety of levels. MDOT’s first responsibility, when planning specific projects, is to identify populations that will be affected by a given project. If a disproportionate effect is anticipated, mitigation procedures must be followed. If mitigation options do not sufficiently eliminate the disproportionate effect, reasonable alternatives should be discussed and, if necessary, implemented. Disproportionate effects are those effects which are appreciably more severe for any EJ group or predominantly borne by a single EJ group.

In addition to a project-by-project analysis of Environmental Justice, MDOT is responsible for ensuring that its overall program does not disproportionately distribute benefits or negative effects to any target EJ population. Analysis at the statewide level examines the total negative and positive outcomes of transportation projects to see whether there is a disproportionate effect. This process involves establishing a baseline (a geographic representation of the location of those populations mentioned in the executive order) and then examining MDOT’s program as a whole as it relates to these areas.

For purposes of this document, analysis is limited to the non-MPO areas of the state. Each MPO TIP contains an EJ analysis of all projects within its Metropolitan Area Boundary. Because the negative effects of projects are generally examined at the individual project level, the analysis in this report focuses on the benefits of transportation improvements to an area. For this analysis the following definitions were used:

Low-Income: a person whose median household income is at or below the U.S. Department of Health and Human Services poverty guidelines.

Minority:

1. **Black or African American.** A person having origins in any of the Black racial groups of Africa.
2. **Hispanic.** A person of Mexican, Puerto Rican, Cuban, South or Central American, or other Spanish culture or origin, regardless of race.
3. **Asian.** A person having origins in any of the original peoples of the Far East, Southeast Asia or the Indian subcontinent.
4. **American Indian and Alaskan Native.** A person having origins in any of the original people of North, Central or South America and who maintain tribal affiliation or community attachment.

5. **Native Hawaiian or Other Pacific Islander.** A person having origins in any of the original peoples of Hawaii, Guam, Samoa, or other Pacific Islands.

Low income and minority thresholds were developed using 2000 census data for low-income groups and for minority groups. MPO populations were not included in development of the thresholds since we are analyzing the rural, non-MPO areas of the state. Any zone with a minority group population exceeding the statewide non-MPO average and a low-income population above the statewide non-

MPO average was considered an EJ zone. Those areas were mapped and overlaid on the projects contained in the FY 2008-2011 STIP. These maps, displaying all non-MPO EJ zones and all non-MPO projects, are shown on pages 22-24. For the sake of clarity, all rural (non-MPO), Rural Task Force and Small Urban projects were combined into one category on the maps included in this report.

The analysis addresses two fundamental Environmental Justice principles:

1. To avoid, minimize, or mitigate disproportionate high and adverse human health or environmental effects on low-income and minority populations.
2. To prevent the denial of, reduction in, or significant delay in the receipt of benefits by low-income and minority populations.

Table 2 summarizes the results of the analysis of all non-MPO projects and costs in relation to all non-MPO EJ zones. For the sake of consistency and comparison with the FY 2006-2008 STIP EJ analysis, Rural Task Force projects and Small Urban projects are listed separately.

Table 2

FY 2008-2011 STIP Environmental Justice (EJ) Analysis

PROJECTS			
Type of Project	Total Projects	Total Projects in EJ Zones	Percent Projects In EJ Zones
Trunkline (MDOT)	243	210	86%
Rural Task Force (Local)	366	303	83%
Small Urban (Local)	73	62	85%
Total	682	640	93%
COSTS			
Type of Project	Total Cost	Total Costs in EJ Zone	Percent Costs In EJ Zones
Trunkline (MDOT)	\$595,859,797	\$460,120,245	77%
Rural Task Force (Local)	\$107,809,132	\$80,255,000	74%
Small Urban (Local)	\$25,077,004	\$21,250,000	85%
Total	\$706,176,629	\$561,625,245	80%

Disproportionate adverse effects

Adverse effects, as defined in the final US DOT Order on Environmental Justice (DOT Order 5610.2) contained in the Federal Register in 1997, include but are not limited to: bodily impairment, illness or death; air, noise, or water pollution and soil contamination; destruction or disruption of natural resources or aesthetic values; disruption of community cohesion; disruption of the availability of public and private facilities and services; displacement of persons, farms, non-profit organizations; increased traffic congestion.

Review of the total 682 trunkline and local non-MPO projects that comprise the proposed FY 2008-2011 STIP reveals that the majority fall within the preservation category. The remainder of the projects consist of bridge, passing relief lane, roadsides, economic development projects as well as minor center left turn widening projects.

The proposed facility improvements located in minority or low-income populations are similar in design and comparative impacts to those located in non-minority or non-low-income populations. With respect to the relatively few improve and expand projects, they are located in mostly rural, low-population areas thereby minimizing potential adverse effects such as noise, vibration, displacement of persons or businesses, or disruption of community cohesion. All displacements and acquisition of right-of-way will be at the project development level and will follow the appropriate state and federal procedures including the Uniform Relocation Assistance and Real Property Acquisition Policies Act to minimize the impacts on affected individuals and businesses. Therefore, it has been determined that any adverse impacts associated with the proposed system improvements do not reach the disproportionately high and adverse standard.

Receipt of beneficial effects

As Table 2 shows, the FY 2008-2011 STIP includes a total of 682 projects located outside MPOs, of which 640 (93%) are located within or adjacent to or slightly touches an established EJ zones. Of the total projects, 243 trunkline (MDOT) projects with approximately 86 percent benefiting EJ zones, 366 Rural Task Force (local) projects with about 83 percent serving EJ zones, and 73 Small Urban (local) projects of which 85 percent serve EJ zones.

Project costs total in FY 2008-2011 is over \$706.1 million (\$706,176,629), of which \$561,625,245 (80%) will benefit EJ zones. Of the total project costs, 65 percent are trunkline (MDOT) costs with approximately 77 percent benefiting EJ zones, 11 percent are Rural Task Force (local) costs with about 74 percent serving EJ zones, and two point three percent are Small Urban (local) costs of which 85 percent benefit EJ zones. A significant number of projects and associated project costs are located within or adjacent to areas established as EJ zones. Therefore, it has been determined that low income or minority populations are not being denied receipt of projects but will positively benefit from the economic impact of these proposed transportation improvements.

Table 3 shows the population that is served by transportation improvement projects in selected geographic areas within the State of Michigan. Since the 2000 Bureau of Census statistics is the most current population figures, this table remains the same as the figures in the FY 2006-2008 STIP. The total population of non-MPO EJ zones was calculated as 1,741,833 or 18 percent of Michigan's population. In other words, 18 percent of Michigan's citizens are considered low-income or a minority. Of the total non-MPO population, 69 percent reside in EJ zones. Seventy-five percent of all non-MPO Census Block Groups qualify for EJ status.

Table 3

2000 Census Data for FY 2008-2011 STIP EJ Analysis

Geographic Area	Total Population	Percent of Total Population	Total Number of Census Block Groups*
In the State of Michigan	9,938,444	100%	8410
In MPOs	7,599,927	75%	6370
In Non-MPO Areas	2,338,517	24%	2040
In Non-MPO EJ Zones	1,741,833	18%	1506

* A Census Block Group is the smallest geographic level for which EJ-related Census data is available.

Environmental Justice ensures that the potential impacts and benefits derived from transportation services are provided equitably to every population in Michigan. Through careful planning and proactive involvement, MDOT guarantees the highest quality transportation services to all of Michigan's citizens, regardless of race or income.

The environmental justice zone maps display the location of all the state and local highway projects included in this document. Projects are displayed either as a colored star or a colored line segments. Stars represent projects at a single location such as an intersection; a line segment represents projects that are a linear in nature, such as a highway between two intersecting roads. Each color represents the year of project implementation.

DOWNLOAD ENVIRONMENTAL JUSTICE ZONE MAPS:

[Rural Projects in Relation to Environmental Project Zones, Northern Lower Peninsula](#)

File size 2.4 MB

[Rural Projects in Relation to Environmental Project Zones, Southern Lower Peninsula](#)

File size 4 MB

[Rural Projects in Relation to Environmental Project Zones, Upper Peninsula](#)

File size 1.4 MB

AIR QUALITY ANALYSIS

Transportation Conformity analysis is a method of determining the air quality impacts of transportation plans (TIPs, LRPs and STIPs) against baselines or budgets which are used to show that there are no increases to ozone precursors or harmful regulated emissions resulting from implementation of the plans. Under applicable National Ambient Air Quality Standards, counties which are or have been classified as non-attainment or re-designated to attainment/maintenance have continuing mandatory conformity analysis requirements under the Clean Air Act Amendments of 1990.

The State of Michigan has non-attainment areas under the 8 hour Ozone Standards published in 2004 as well as attainment/maintenance areas.

Of the 25 Michigan counties in non-attainment or attainment/maintenance areas, only the following counties have STIP related projects: Allegan, Benzie, Berrien, Calhoun, Cass, Huron, Mason, Ottawa, Van Buren, Lenawee, and Lapeer. The remaining counties (Clinton, Eaton, Genesee, Ingham, Kent, Kalamazoo, Livingston, Macomb, Monroe, Muskegon, Oakland, St. Clair, Washtenaw, Wayne) have applicable MPO TIP or LRP documents included in this STIP by reference. Appropriate analysis is conducted as part of the planning process for each MPO TIP or LRP. The following counties also have both STIP and TIP projects: Allegan, Berrien, Calhoun, Cass, and Ottawa.

Allegan, Benzie, Huron, and Mason counties are exempt from conformity analysis because these counties have no capacity expansion projects. If future capacity expansion projects are amended into the STIP, then appropriate air quality conformity runs will be submitted for the STIP as needed or as determined by the Rural Task Force committees in cooperation with MDOT, FHWA, and EPA. Berrien, Calhoun, Cass, Ottawa, Van Buren, Lenawee and Lapeer counties complete and submit their conformity analysis with their respective non-attainment areas. .

The Environmental Protection Agency's (EPA) new eight hour Ozone Standard requires all of Michigan's 25 counties in non-attainment to conduct conformity analysis. All counties covered by the STIP document were found to conform in accordance with the Michigan Conformity State Implementation Plan (SIP) and all applicable state and federal statutes, rules, and requirements.

FINANCIAL PLAN

The State Transportation Improvement Program is a summary of projects to be initiated over a four year period by the state and local agencies which have legal responsibility to build, operate, and maintain the state's highway, road, street, and public transit systems. The total capital investment in the transportation system for the four year period, including the programs in this report and those in the metropolitan area TIPs, will be over \$6.2 billion. These projects are financed with a combination of federal, state and local funds; are required by federal law to be consistent with the state long-range plan and are financially constrained by fiscal year. This STIP demonstrates that there are enough new resources available each year to fund the projects to be implemented each year.

Financial constraint is a comparison of total new resources, or revenue, with total new commitments, or estimated costs. The financial analysis is a planning tool providing a benchmark or frame of reference for delivering the transportation program; it is not a budget or accounting tool. At any given time, annual revenue is compared to the total estimated cost of new projects. If total new commitments exceeds total new resources, then an amendment is required to reduce commitments or identify additional sources of revenue.

The major objectives of financial constraint are to:

- be consistent with all applicable laws and regulations
- be simple and easy to understand
- be consistent with MDOT business practices
- maintain flexibility for the MPOs by establishing requirements for demonstrating financial constraint but enabling the MPOs to elaborate as desired. While all agencies must report constraint using the same template (in order to facilitate the roll up of the data for the statewide constraint demonstration), the MPOs may modify the content and/or presentation of this information for local purposes.

NEW RESOURCES

There are two major funding sources available for transportation programs, the Michigan Transportation Fund (MTF) comprised primarily of state gas tax and vehicle registration fees, and the Federal-aid Highway Program funded from the portion of the federal gas tax that is returned to Michigan. MDOT resources include not only MTF and federal funds but also bond funds and miscellaneous revenue such as billboard, transport, and utility permits; excess property sales and investment income.

A portion of the MTF is allocated to debt service, the Michigan Department of Natural Resource's (MDNR) Recreation Improvement Fund and the Comprehensive Transportation Fund that funds public transit programs. The remainder is divided by the formulas of Public Act 51 between the cities, counties, and MDOT. Under Michigan law, 25 percent of the state's federal-aid is allocated to local programs and the remaining 75 percent to MDOT programs. Congestion Mitigation and Air Quality (CMAQ), federal bridge, transportation enhancement, discretionary, and congressionally designated funds (earmarks) are excluded from the calculation of the 25 percent local share.

OPERATIONS AND MAINTENANCE

A key strategy in delivering products and services to meet our customers' most important needs is to focus the organization on preserving and optimizing the efficiency of the existing system. This strategy has resulted in the commitment during the four-year period of sufficient resources to operate and maintain the existing system and use the remaining funds for capital improvements. SAFETEA-LU reinforces this policy:

“Financial constraint of the STIP shall be demonstrated and maintained by year and shall include sufficient financial information to demonstrate which projects are to be implemented using current and/or reasonably available revenues, while federally-supported facilities are being adequately operated and maintained...For purposes of transportation operations and maintenance, the STIP shall include financial information containing system-level estimates of costs and revenue sources that are reasonably expected to be available to adequately operate and maintain Federal-aid highways.” (From CFR 450.216 (m))

Agencies must first operate and maintain (O&M) the existing transportation systems so these estimated costs are deducted from state revenue estimates. Only state revenue can be used for operations and maintenance; federal funds can only be used for capital investment. After the O&M deductions, the remaining federal, state, and local funds are available for capital improvements. Table 4 shows the proposed expenditures for operations and , maintenance, as well as funds available for capital improvements.

Table 4

MDOT Operations and Maintenance Funding

	2008	2009	2010	2011	Total
Federal Revenue	\$782,600,000	\$751,000,000	\$804,400,000	\$827,700,000	\$3,165,700,000
State Revenue¹	<u>\$845,400,000</u>	<u>\$749,500,000</u>	<u>\$760,000,000</u>	<u>\$766,300,000</u>	<u>\$3,121,200,000</u>
Total Revenue	\$1,628,000,000	\$1,500,500,000	\$1,564,400,000	\$1,594,000,000	\$6,286,900,000
Operations²	\$227,400,000	\$233,100,000	\$217,800,000	\$678,300,000	\$1,482,400,000
Maintenance	<u>\$261,100,000</u>	<u>\$269,200,000</u>	<u>\$277,500,000</u>	<u>\$807,800,000</u>	<u>\$1,183,100,000</u>
Capital Outlay	\$1,177,300,000	\$1,136,700,000	\$1,175,100,000	\$3,489,100,000	\$3,621,400,000

1) Includes State Trunkline Funds and bond funds.

2) Operations includes administration, buildings/facilities, grants, tort liability, and debt service.

Source: Forecasted STF Revenue Available for Capital Outlay, BTP Systems Evaluation and Program Development Unit

CONSTRUCTION IN ADVANCE OF APPORTIONMENT

Construction in Advance of Apportionment, or Advance Construction (AC) as it is called in Michigan, allows a state or local agency to construct a project with state or local money and be reimbursed with federal money at a later date. It is a cash flow management tool that provides MDOT with greater flexibility/efficiency in matching federal fund categories to individual projects.

As a cash flow tool, AC conversions (reimbursements) equal authorizations (projects approved for future conversion) with no net effect on program size. MDOT's methodology for AC is outlined below.

When the AC project will be started (i.e., when it is committed to):

- Projects are listed in the STIP or MPO TIP in the appropriate year they will be started
- Funds are listed under the appropriate state or local cost and fund source columns
- Both the AC start year and the expected year of conversion to federal funds are noted (in the advance construct column)

When the AC project will be converted to federal funds (i.e., reimbursed with federal funds):

- Projects are listed in the STIP or MPO TIP in the appropriate year they will be converted
- Funds are designated under the federal fund source column
- Both the AC start year and the expected year of conversion to federal funds is noted (in the advance construct column)

MDOT certifies that there is sufficient state revenue to cover all AC authorizations. MDOT

maintains a cash-flow model that identifies funding requirements. In addition, MDOT has statutory authority to borrow funds if necessary to meet obligations, if a situation were to arise where additional cash was required.

FINANCIAL CONSTRAINT

This plan was developed using the best available federal, state and local revenue information. As mentioned earlier, the total state and federal investment in the state trunkline system for the four year period, including both capital and maintenance programs, is expected to be over six billion dollars. Federal and state revenue estimates are routinely reviewed and adjusted as needed, necessitating appropriate program adjustments. This revenue provides the basis for the estimates of new resources in the financial tables at the end of this section.

The STIP and the MPO TIPs contain all federally funded state trunkline and local projects and all regionally significant state and local projects regardless of funding source. Non-federally funded local projects that are not regionally significant can be included in the MPO TIPs at the discretion of the MPO.

Some programs, such as safety and heavy maintenance, rely on timely assessment of system condition or operational information to determine projects. Some projects are selected annually through statewide competitive grant programs. Projects for these types of programs will be selected later in the year and are not included in this document at this time. Once specific projects have been selected financial resources are identified and committed for these programs through the amendment process.

SAFETEA-LU allows “*projects that are not considered to be of appropriate scale for individual identification in a given program year may be grouped by function, work type, and/or geographic area.*” (From 23 CFR 450.216 (j).) In Michigan these groupings are called General Program Accounts or GPAs. Some general concepts have been agreed to between MDOT and the FHWA Michigan Division Office:

1. Cannot be regionally significant.
2. Must be air quality neutral (no capacity expansion).
3. Must be a environmental categorical exclusion.
4. Must be based on a list of projects or a methodology for creating them (generally a formula based on past experiences and practices) but cannot be a PLACEHOLDER based on funding budgeted for a specific program.
5. GPAs within a Metropolitan area Boundary (MAB) requires MPO agreement.

MDOT currently uses 10 GPAs for state trunkline and local projects as shown below.

State Trunkline GPAs (6): Road Capital Preventive Maintenance; Bridge Capital Preventive/Scheduled Maintenance; Traffic and Safety; Trunkline Railroad Crossings; Enhancements; and Preliminary Engineering and Right of Way

Local GPAs (4): Bridge; Highway; Safety; Rail Safety Enhancements

Information on the project selection process and work type activities for GPAs can be found in Appendix H.

On the financial constraint tables (Table 5 and Table 6 on pages 31 - 34), *Estimated Federal Revenue* is all new estimated resources of federal-aid. *Estimated Non-Federal Revenue* includes all state and local matching funds other than the new federal-aid. *Total Estimated Revenue* is the total of federal and non-federal revenue. *Total New Commitments* is the total estimated cost of the proposed projects listed in the STIP for that revenue source for the fiscal year.

Key elements of the demonstration of financial constraint are as follows:

- Estimated revenue and proposed commitments are reported by Michigan’s fiscal year and covers the period beginning October 1, 2007 and ending September 30, 2011. (The federal fiscal year (FY) also coincides with Michigan’s FY.) Fiscal Year 2008 begins on October 1, 2007.
- Both highway and transit financial constraint is demonstrated by major federal-aid categories.

- Revenue and commitments using federal-aid are reported separately from state and local revenue and commitments. State and local revenue and commitments are combined into one category and called *non-federal*.
- **Total proposed commitments cannot exceed total estimated federal, state and local revenue each fiscal year.**
- Proposed commitments may exceed estimated revenue in a specific funding category.
- GPAs are included in the appropriate federal-aid category or will be included via the amendment process.
- Financial constraint is demonstrated using two tables: one table for the rural, or non-MPO, program and one table for the total statewide program which combines rural/non-MPO with all the MPOs. (Individual MPO financial constraint tables are included in each MPO's TIP.)
- Statewide programs are included in the rural (non-MPO) table.
- Converted advance construct funds cannot be part of the federal revenue estimate

On pages 31-32, Table 5 demonstrates financial constraint in the rural or non-MPO areas of the state for all the highway and transit projects contained in this report. The remainder of the highway and transit program is contained in the individual MPO TIPs. The transit portion of Table 5 does not show funds in the first funding category because the Federal Transit Administration (FTA) Section 5307 projects are located only in MPO areas. The FTA Section 5307 programs are formula distributions to urbanized areas, all of which are part of an MPO.

Table 6, on pages 33-34, demonstrates financial constraint for the entire program which includes both rural (non-MPO) and MPO programs in their entirety. All MPO tables from the TIPs and the rural/non-MPO table from this document are combined for an overall view of the entire program. Total new resources are equal to or more than total new commitments for each of the four fiscal years.

The financial information in this plan demonstrates that there are sufficient dollars available each fiscal year to deliver the proposed programs and projects contained in this report and the individual MPO TIPs. The financing of the program is fundamentally sound at this time and is based on the best information currently available. Given Michigan's economic climate and the reduction of gasoline revenue into the Michigan Transportation Fund, further refinement of this report will be required.

Table 5a - RURAL (NON-MPO) FISCAL CONSTRAINT DEMONSTRATION

8/27/2007	FY 2008				FY 2009			
Highway Fund Source	Estimated Federal Revenue	Estimated Non Federal Revenue	Total Estimated Revenue	Total Proposed Commitments	Estimated Federal Revenue	Estimated Non-Federal Revenue	Total Estimated Revenue	Total Proposed Commitments
Interstate Maintenance (IM)	\$30,175,691	\$3,352,855	\$33,528,546	\$33,528,546	\$0	\$0	\$0	\$0
National Highway System (NHS)	\$61,773,755	\$13,364,855	\$75,138,610	\$75,138,610	\$40,139,040	\$8,900,714	\$49,039,754	\$49,039,754
Surface Transportation Program (STP)	\$185,531,874	\$51,443,500	\$236,975,374	\$236,975,374	\$79,702,350	\$17,626,169	\$97,328,519	\$97,328,519
Bridge (B)	\$27,281,650	\$6,229,443	\$33,511,093	\$33,511,093	\$12,659,318	\$2,967,144	\$15,626,462	\$15,626,462
Congestion Mitigation & Air Quality (CMAQ)	\$2,287,397	\$514,115	\$2,801,512	\$2,801,512	\$292,000	\$73,000	\$365,000	\$365,000
Safety	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Equity Bonus (EB)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other FHWA	\$1,441,400	\$360,350	\$1,801,750	\$1,801,750	\$1,337,289	\$319,961	\$1,657,250	\$1,657,250
Non-FHWA	\$0	\$69,907,721	\$69,907,721	\$69,907,721	\$0	\$50,831,061	\$50,831,061	\$50,831,061
Highway Total	\$308,491,767	\$145,172,839	\$453,664,606	\$453,664,606	\$134,129,997	\$80,718,049	\$214,848,046	\$214,848,046
Transit Fund Source								
Section 5307 UZA Formula	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Section 5309 Capital	\$12,000,000	\$3,000,000	\$15,000,000	\$15,000,000	\$13,000,000	\$3,250,000	\$16,250,000	\$16,250,000
Section 5310 Elderly and Disabled	\$4,137,967	\$1,034,491	\$5,172,458	\$5,172,458	\$4,355,117	\$1,088,779	\$5,443,896	\$5,443,896
Section 5311 Non-UZA Formula	\$16,605,956	\$3,597,150	\$20,203,106	\$20,203,106	\$17,557,194	\$3,802,182	\$21,359,376	\$21,359,376
Section 5316 Job Access/Reverse Commute	\$908,737	\$908,737	\$1,817,474	\$1,817,474	\$956,250	\$956,250	\$1,912,500	\$1,912,500
Section 5317 New Freedom Initiative	\$624,990	\$624,990	\$1,249,980	\$1,249,980	\$660,703	\$660,703	\$1,321,406	\$1,321,406
Transit Total	\$34,277,650	\$9,165,368	\$43,443,018	\$43,443,018	\$36,529,264	\$9,757,914	\$46,287,178	\$46,287,178

Notes:

1. Estimated federal revenue is apportionment (not obligation authority). It includes all phases for each trunkline and local project.
2. Estimated non-federal revenue includes state and local match and other funds for all phases for each trunkline and local project.
3. The FY 2008-2011 STIP reports financial constraint by major federal funding source.

Table 5b - RURAL (NON-MPO) FISCAL CONSTRAINT DEMONSTRATION (continued)

8/27/2007	FY 2010				FY 2011			
Highway Fund Source	Estimated Federal Revenue	Estimated Non Federal Revenue	Total Estimated Revenue	Total Proposed Commitments	Estimated Federal Revenue	Estimated Non-Federal Revenue	Total Estimated Revenue	Total Proposed Commitments
Interstate Maintenance (IM)	\$24,622,616	\$2,735,846	\$27,358,462	\$27,358,462	\$36,328,441	\$4,036,494	\$40,364,935	\$40,364,935
National Highway System (NHS)	\$67,629,430	\$13,972,156	\$81,601,586	\$81,601,586	\$35,944,018	\$7,970,479	\$43,914,497	\$43,914,497
Surface Transportation Program (STP)	\$70,757,217	\$16,067,255	\$86,824,472	\$86,824,472	\$94,942,264	\$18,835,720	\$113,777,984	\$113,777,984
Bridge (B)	\$9,833,237	\$2,458,309	\$12,291,546	\$12,291,546	\$5,779,712	\$728,261	\$6,507,973	\$6,507,973
Congestion Mitigation & Air Quality (CMAQ)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Safety	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Equity Bonus (EB)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other FHWA	\$2,154,012	\$487,958	\$2,641,970	\$2,641,970	\$365,000	\$91,250	\$456,250	\$456,250
Non-FHWA	\$0	\$53,649,268	\$53,649,268	\$53,649,268	\$0	\$50,920,000	\$50,920,000	\$50,920,000
Highway Total	\$174,996,512	\$89,370,792	\$264,367,304	\$264,367,304	\$173,359,435	\$82,582,204	\$255,941,639	\$255,941,639
Transit Fund Source								
Section 5307 UZA Formula	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Section 5309 Capital	14000000	3500000	\$17,500,000	\$17,500,000	\$15,000,000	\$3,750,000	\$18,750,000	\$18,750,000
Section 5310 Elderly and Disabled	4703526	1175881	\$5,879,407	\$5,879,407	\$5,079,808	\$1,269,952	\$6,349,760	\$6,349,760
Section 5311 Non-UZA Formula	18571097	4018529	\$22,589,626	\$22,589,626	\$19,644,480	\$4,247,183	\$23,891,663	\$23,891,663
Section 5316 Job Access/Reverse Commute	988763	988763	\$1,977,526	\$1,977,526	\$1,022,383	\$1,022,383	\$2,044,766	\$2,044,766
Section 5317 New Freedom Initiative	676560	676560	\$1,353,120	\$1,353,120	\$692,798	\$692,798	\$1,385,596	\$1,385,596
Transit Total	\$38,939,946	\$10,359,733	\$49,299,679	\$49,299,679	\$41,439,469	\$10,982,316	\$52,421,785	\$52,421,785

Notes:

1. Estimated federal revenue is apportionment (not obligation authority). It includes all phases for each trunkline and local project.
2. Estimated non-federal revenue includes state and local match and other funds for all phases for each trunkline and local project.
3. The FY 2008-2011 STIP reports financial constraint by major federal funding source.

Table 6a - STATEWIDE FISCAL CONSTRAINT DEMONSTRATION

8/27/2007	FY 2008				FY 2009			
Highway Fund Source	Estimated Federal Revenue	Estimated Non-Federal Revenue	Total Estimated Revenue	Total Proposed Commitments	Estimated Federal Revenue	Estimated Non-Federal Revenue	Total Estimated Revenue	Total Proposed Commitments
Interstate Maintenance (IM)	\$273,002,258	\$30,984,417	\$303,986,675	\$303,986,675	\$135,997,462	\$15,065,715	\$151,063,177	\$151,063,177
National Highway System (NHS)	\$161,356,003	\$34,065,346	\$195,421,349	\$195,421,349	\$117,187,685	\$25,579,600	\$142,767,285	\$142,767,285
Surface Transportation Program (STP)	\$470,597,290	\$126,589,829	\$597,187,119	\$595,979,838	\$207,130,446	\$51,027,385	\$258,157,831	\$257,039,762
Bridge (B)	\$134,344,028	\$32,230,236	\$166,574,264	\$166,574,264	\$61,578,096	\$10,746,874	\$72,324,970	\$72,364,970
Congestion Mitigation & Air Quality (CMAQ)	\$48,890,978	\$8,149,894	\$57,040,872	\$57,040,872	\$1,292,000	\$323,000	\$1,615,000	\$1,615,000
Safety	\$19,151,000	\$4,142,000	\$23,293,000	\$10,422,000	\$26,770,000	\$6,362,000	\$33,132,000	\$30,929,000
Equity Bonus (EB)	\$84,689,173	\$30,682,558	\$115,371,731	\$27,143,731	\$7,741,423	\$6,483,856	\$14,225,279	\$13,850,279
Other FHWA	\$37,403,418	\$76,393,672	\$113,797,090	\$152,676,090	\$11,765,591	\$23,051,966	\$34,817,557	\$34,441,717
Non-FHWA	\$655,480,783	\$312,514,666	\$967,995,449	\$177,835,326	\$303,936,169	\$137,163,061	\$441,099,230	\$436,924,411
Highway Total	\$1,884,914,931	\$655,752,618	\$2,540,667,549	\$1,687,080,145	\$873,398,872	\$275,803,457	\$1,149,202,329	\$1,140,995,601
Transit Fund Source								
Section 5307 UZA Formula	\$80,056,793	\$43,110,386	\$123,167,179	\$123,167,179	\$62,290,808	\$21,032,437	\$83,323,245	\$83,323,245
Section 5309 Capital	\$40,164,355	\$9,807,588	\$49,971,943	\$49,971,943	\$25,484,000	\$6,227,000	\$31,711,000	\$31,711,000
Section 5310 Elderly and Disabled	\$9,350,958	\$2,383,826	\$11,734,784	\$11,734,784	\$4,822,117	\$1,265,779	\$6,087,896	\$6,087,896
Section 5311 Non-UZA Formula	\$18,784,147	\$48,978,132	\$67,762,279	\$67,762,279	\$19,199,702	\$44,911,412	\$64,111,114	\$64,111,144
Section 5316 Job Access/Reverse Commute	\$1,912,737	\$1,909,737	\$3,822,474	\$3,822,474	\$1,384,395	\$1,384,395	\$2,768,790	\$2,768,790
Section 5317 New Freedom Initiative	\$852,426	\$681,849	\$1,534,275	\$1,534,275	\$884,967	\$789,740	\$1,674,707	\$1,674,707
Other Federal	\$151,121,416	\$106,871,518	\$257,992,934	\$257,992,934	\$114,065,989	\$75,610,763	\$189,676,752	\$189,676,782
Transit Total	\$302,242,832	\$213,743,036	\$515,985,868	\$515,985,868	\$228,131,978	\$151,221,526	\$379,353,504	\$379,353,564

Notes:

1. Estimated federal revenue is apportionment (not obligation authority). It includes all phases for each trunkline and local project
2. Estimated non-federal revenue includes state and local match and other funds for all phases for each trunkline and local project
3. The FY 2008-2011 STIP reports financial constraint by major federal funding source

Table 6b - STATEWIDE FISCAL CONSTRAINT DEMONSTRATION (continued)

8/27/2007	FY 2010				FY 2011			
Highway Fund Source	Estimated Federal Revenue	Estimated Non-Federal Revenue	Total Estimated Revenue	Total Proposed Commitments	Estimated Federal Revenue	Estimated Non-Federal Revenue	Total Estimated Revenue	Total Proposed Commitments
Interstate Maintenance (IM)	\$123,491,746	\$13,692,750	\$137,184,496	\$137,184,496	\$109,859,387	\$12,206,599	\$122,065,986	\$122,065,986
National Highway System (NHS)	\$83,613,644	\$16,851,942	\$100,465,586	\$100,465,586	\$51,901,760	\$11,509,179	\$63,410,939	\$63,410,939
Surface Transportation Program (STP)	\$183,634,812	\$47,284,778	\$230,919,590	\$225,356,730	\$232,266,513	\$65,609,595	\$297,876,108	\$290,887,577
Bridge (B)	\$31,953,794	\$6,312,241	\$38,266,035	\$38,266,035	\$15,146,496	\$2,096,861	\$17,243,357	\$17,243,357
Congestion Mitigation & Air Quality (CMAQ)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Safety	\$16,652,000	\$4,162,000	\$20,814,000	\$23,230,000	\$16,770,000	\$4,064,000	\$20,834,000	\$22,216,000
Equity Bonus (EB)	\$10,483,423	\$4,975,856	\$15,459,279	\$15,429,279	\$11,940,423	\$3,343,856	\$15,284,279	\$15,284,279
Other FHWA	\$2,154,012	\$27,599,958	\$29,753,970	\$29,753,970	\$365,000	\$11,875,250	\$12,240,250	\$12,240,250
Non-FHWA	\$166,910,855	\$113,408,268	\$280,319,123	\$276,199,123	\$115,093,166	\$93,918,979	\$209,012,145	\$206,121,250
Highway Total	\$618,894,286	\$234,287,793	\$853,182,079	\$845,885,219	\$553,342,745	\$204,624,319	\$757,967,064	\$749,469,638
Transit Fund Source								
Section 5307 UZA Formula	\$72,635,015	\$23,574,702	\$96,209,717	\$96,209,717	\$72,638,242	\$22,931,355	\$95,569,597	\$95,569,597
Section 5309 Capital	\$23,500,000	\$5,854,500	\$29,354,500	\$29,354,500	\$23,324,000	\$5,831,000	\$29,155,000	\$29,155,000
Section 5310 Elderly and Disabled	\$4,829,526	\$1,266,881	\$6,096,407	\$6,096,407	\$5,402,808	\$1,410,952	\$6,813,760	\$6,813,760
Section 5311 Non-UZA Formula	\$20,246,570	\$48,004,825	\$68,251,395	\$68,251,395	\$21,363,802	\$50,644,614	\$72,008,416	\$72,008,416
Section 5316 Job Access/Reverse Commute	\$1,435,782	\$1,435,782	\$2,871,564	\$2,871,564	\$1,473,082	\$1,473,082	\$2,946,164	\$2,946,164
Section 5317 New Freedom Initiative	\$910,774	\$810,274	\$1,721,048	\$1,721,048	\$929,016	\$828,516	\$1,757,532	\$1,757,532
Other Federal	\$123,557,667	\$80,946,964	\$204,504,631	\$204,504,631	\$125,130,950	\$83,119,519	\$208,250,469	\$208,250,469
Transit Total	\$247,115,334	\$161,893,928	\$409,009,262	\$409,009,262	\$250,261,900	\$166,239,038	\$416,500,938	\$416,500,938

Notes:

1. Estimated federal revenue is apportionment (not obligation authority). It includes all phases for each trunkline and local project
2. Estimated non-federal revenue includes state and local match and other funds for all phases for each trunkline and local project
3. The FY 2008-2011 STIP reports financial constraint by major federal funding source

PROJECTS

In August 2006, MDOT hosted a two day workshop involving transportation planning staff from Michigan's MPOs, MDOT and the Federal Highway Administration's Michigan Division Office (FHWA-MI). The goal of the workshop was to agree to a uniform format to display individual project data for all TIPs and the STIP in order to accomplish the following objectives:

- Make it easier to find projects in the approved document.
- Improve the ability to update, monitor, and maintain STIP/TIP documents.
- Improve the efficiency of the development and approval process.
- Enhance the ability to produce summary tables.
- Align the entire STIP/TIP development and maintenance process for automation.

A uniform project data listing format was agreed to by all stakeholders and has been implemented with the FY 2008-2011 STIP and associated MPO TIPs. Table 7, listed below, describes the information that is provided for each project.

Table 7: Project Information

Field Name	Description												
Fiscal Year	Federal (and State of Michigan) fiscal year in which the project will be obligated.												
County	The name of the county in which the project will take place.												
Jurisdiction	Responsible Act 51 agency or MPO for project implementation.												
Project Name	Route, street name or general name of project.												
Limits	Project termini or service area (area-wide, region-wide, city-wide or county-wide).												
Length	The total length of project in miles.												
Primary Work Type	A brief standardized description of the primary type of work. See Appendix I. Appendix J provides more information for each primary work type.												
Project Description	A more detailed description of the scope of work.												
Phase	<p>Phase refers to the stage of work being done. The following list describes the stage of work for each phase:</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td>EPE</td><td>Early Preliminary Engineering and Studies</td></tr> <tr> <td>PE</td><td>Preliminary Engineering</td></tr> <tr> <td>ROW</td><td>Right of Way</td></tr> <tr> <td>CON</td><td>Construction</td></tr> <tr> <td>T-Cap</td><td>Transit Capital</td></tr> <tr> <td>T-Ops</td><td>Transit Operations</td></tr> </table>	EPE	Early Preliminary Engineering and Studies	PE	Preliminary Engineering	ROW	Right of Way	CON	Construction	T-Cap	Transit Capital	T-Ops	Transit Operations
EPE	Early Preliminary Engineering and Studies												
PE	Preliminary Engineering												
ROW	Right of Way												
CON	Construction												
T-Cap	Transit Capital												
T-Ops	Transit Operations												
Advance Construct	<p>AC year: the year the phase is being implemented using state or local funds ACC year: the year the phase is expected to be converted to federal funds (year of Advance Construct Conversion)</p>												

Table 7: Project Information (continued)

Federal Cost (\$1000s)	The total estimated federal amount planned for obligation.
Federal Fund Source	The acronym or funding code for the primary federal fund source. See Appendix K for a list of all funding codes. Any additional federal fund sources and amounts are identified in the <i>Comments</i> column.
State Cost (\$1000s)	The total estimated state amount planned for obligation.
State Fund Source	The acronym or funding code for the primary state fund source. See Appendix K for a list of all funding codes. Any additional state fund sources and amounts are identified in the <i>Comments</i> column.
Local Cost (\$1000s)	The total estimated local amount planned for obligation.
Local Fund Source	The acronym or funding code for the primary local fund source. See Appendix K for a list of all funding codes. Any additional local fund sources and amounts are identified in the <i>Comments</i> column.
Total Cost (\$1000s)	The total estimated cost for the project. planned for obligation from all federal, state and local sources.
MDOT Job Number	Electronically assigned project identification number.
Local ID Number (Optional)	Unique number defined by MPO or rural agency. May be local priority number and fiscal year.
MPO/Rural Approval Date	Date of most recent local agency approval action on named project.
Amendment Type	Specifies the primary amendment type: Scope, Add, Delete or Cost.
Air Quality	Exempt means the named project does not require air quality analysis. Non-Exempt means the project requires air quality analysis. Not Applicable means that the named project is not within a federally designated non-attainment or maintenance area.
Comments	Narrative. Addition information, notations or cross-references to data elsewhere in the document.

The following project list contains rural or non-MPO projects outside of Metropolitan Area Boundaries; projects that fall within MPO boundaries are contained in the respective MPO TIP. The project list is organized by **fiscal year, county and jurisdiction**.